Performance Data Sheet

RKA5510EXA

General Information

Model	RKA5510EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3790	3560					
	Watts	437	481					
	Amps	3.64	4.04					
	Lb/h	48.7	47.7					
-10	Btu/h	4190	3930	3690				
	Watts	448	495	541				
	Amps	3.74	4.17	4.61				
	Lb/h	53.5	52.4	51.3				
-5	Btu/h	4660	4380	4110	3860			
	Watts	459	508	557	606			
	Amps	3.83	4.30	4.78	5.27			
	Lb/h	59.2	58.0	56.8	55.6			
0	Btu/h	5200	4900	4610	4320	4050		
	Watts	470	522	574	626	678		
	Amps	3.93	4.43	4.95	5.47	6.01		
	Lb/h	65.8	64.4	63.1	61.8	60.6		
5	Btu/h	5820	5490	5170	4850	4550		
	Watts	481	535	590	645	701		
	Amps	4.03	4.57	5.11	5.67	6.24		
	Lb/h	73.2	71.8	70.3	68.9	67.6		
10	Btu/h	6520	6160	5800	5450	5110	4780	4450
	Watts	493	549	605	664	723	784	846
	Amps	4.13	4.69	5.27	5.86	6.46	7.07	7.69
	Lb/h	81.4	79.9	78.4	76.9	75.4	74.0	72.7
15	Btu/h	7290	6900	6510	6120	5750	5370	5010
	Watts	504	562	621	682	744	809	875
	Amps	4.23	4.82	5.43	6.05	6.68	7.32	7.97
	Lb/h	90.4	88.9	87.3	85.6	84.1	82.5	81.1
20	Btu/h	8130	7700	7280	6860	6440	6030	5630
	Watts	516	575	636	699	765	833	903
	Amps	4.33	4.95	5.59	6.23	6.89	7.56	8.24
	Lb/h	100	98.6	97.0	95.3	93.6	91.9	90.3

25	Btu/h	9040	8580	8120	7670	7210	6760	6310
	Watts	528	588	651	716	785	856	930
	Amps	4.44	5.08	5.74	6.41	7.09	7.79	8.49
	Lb/h	111	109	107	106	104	102	100
30	Btu/h	10000	9530	9040	8540	8040	7550	7060
	Watts	540	601	666	733	804	878	956
	Amps	4.54	5.21	5.89	6.58	7.28	8.00	8.74
	Lb/h	122	121	119	117	115	113	111
35	Btu/h	11100	10600	10000	9480	8940	8400	7860
	Watts	552	614	680	749	823	900	981
	Amps	4.65	5.34	6.03	6.74	7.47	8.21	8.97
	Lb/h	134	133	131	129	127	125	123
40	Btu/h	12200	11700	11100	10500	9900	9320	8730
	Watts	564	627	694	765	841	920	1000
	Amps	4.76	5.46	6.18	6.91	7.65	8.41	9.18
	Lb/h	147	146	144	142	140	138	136
45	Btu/h	13400	12800	12200	11600	10900	10300	9670
	Watts	577	640	708	781	858	940	1030
	Amps	4.88	5.59	6.32	7.06	7.82	8.60	9.39
	Lb/h	161	159	157	155	153	151	149
50	Btu/h	14700	14100	13400	12700	12000	11300	10700
	Watts	590	653	722	796	875	959	1050
	Amps	5.00	5.72	6.46	7.22	7.99	8.78	9.59
	Lb/h	175	174	172	170	168	166	163
55	Btu/h	16100	15400	14600	13900	13200	12500	11700
	Watts	603	666	735	810	891	977	1070
	Amps	5.12	5.85	6.60	7.36	8.15	8.95	9.77
	Lb/h	190	189	187	185	183	181	178

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.751235E+03	5.688839E+01	2.240544E-01	7.202115E+01
C2	1.493366E+02	2.201812E+00	-2.764670E-02	1.428916E+00
C3	-3.191605E+01	5.248144E+00	4.204013E-02	1.211232E-02
C4	1.767463E+00	3.537843E-02	4.064889E-04	1.491074E-02
C5	-2.905431E-01	-3.844268E-02	5.197493E-04	8.641507E-04
C6	-1.471528E-02	-1.937472E-03	5.710214E-05	-1.598975E-03
C7	-2.040794E-04	1.212721E-05	2.128003E-07	-1.833714E-05
C8	-3.579634E-03	-4.140804E-04	-4.746373E-06	2.347194E-05
C9	-1.473082E-03	4.875865E-04	8.723286E-07	-1.607117E-05
C10	1.948887E-04	1.131315E-05	-4.878675E-08	5.880875E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature